

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : RICOH CO LTD

(22)Date of filing : 08.10.1999

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(54) METHOD FOR MANUFACTURING REVERSIBLY THERMALLY RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for manufacturing a reversibly thermally recording medium without appearing a skin fog by an erasing device such as an erasing bar or a thermal head, and to further provide a reversibly thermally recording medium capable of being rapidly erased and having good durability without notch on the medium.

SOLUTION: A reversely thermally recording medium has a reversibly thermally recording layer containing a reversibly heat sensitive composition, includes an electron donative colorational compound, an electron acceptive compound and a third component on at least a support, and is capable of forming a relatively color developing state due to a difference of a heating temperature and/or cooling sped after heating. A drying temperature when the layer is manufactured is a melting point or higher of the third component contained in the layer and melting points or lower of the electron donative colorational and acceptive compounds.

LEGAL STATUS

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(71)Applicant : MITSUBISHI PAPER MILLS LTD

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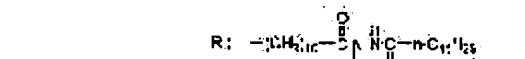
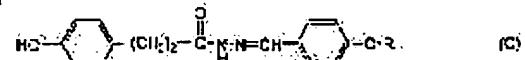
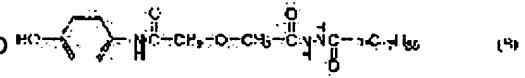
(72)Inventor : MARUYAMA ATSUSHI
SANO HIDEKAZU

(54) REVERSIBLE HEAT-SENSITIVE RECORDING MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a reversible heat-sensitive recording material for forming and erasing with good contrast an image and retaining the image stabilized with time under the environment of daily life.

SOLUTION: A reversible heat-sensitive recording material contains usually a colorless or light color electron donative dye precursor and also at least one kind of compounds represented, for instance, by the formula as an electron acceptive compound generating the reversible tone variation for the dye precursor by heating.



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(71)Applicant : MITSUBISHI PAPER MILLS LTD

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(72)Inventor : MARUYAMA ATSUSHI

SANO HIDEKAZU

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(54) REVERSIBLE DICHROMATIC THERMAL RECORDING MATERIAL AND RECORDING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a reversible dichromatic thermal recording material which ensures a sharp contrast and the formation and erasing of an image and can keep an image which is stable over time under daily life environments.

SOLUTION: This reversible dichromatic thermal recording material has a reversible thermally color developing composition which uses a routinely colorless or pale-color electron-donative dye precursor and an electron-receptive compound and can relatively form a color development state and a decolorization state depending upon the difference in a heating temperature and/or a cooling temperature after heating, formed on a support. In addition, the reversible thermally color developing composition is formed of two kinds of parts showing different color development color tones from each other and in a mutually independent and discrete state. Further, the thermal recording material is characterized in that the crystallization rate of the electron-receptive compound varies at the time of the color development state and at the time of the decolorization state of the composition, when the shift from the former state to the latter state occurs.

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